

CLAIMS

- Fig. 1 1. A method of discovery of devices on a network, which network comprises a plurality of devices, at least some of which are managed, at least one unmanaged phone and a telephone controller, said method comprising establishing an address for the managed devices, the telephone controller and the or each said phone, establishing the type of each managed device in the network, determining which of the remaining devices are phones by accessing the relevant information in the discovered telephone controller by establishing correspondence between the or each said phone and its address, and using this information to provide a display of the topology of the network including the or each phone.
2. A method as claimed in claim 1 in which the telephone controller is accessed to obtain information stored in a memory of the telephone controller.
3. A method as claimed in claim 1 in which said addresses comprise MAC addresses.
4. A method as claimed in claim 1 including the further step of discovering and displaying the topology of an arrangement wherein a single port of a managed device is connected to a phone and a further non-phone device.
5. A method as claimed in claim 1 including converting information relating to the devices, the telephone controller and the phones into a visual display on a visual display apparatus representing the physical relationship between the devices, for telephone controller and the phones
6. A computer program on a computer readable medium loadable into a digital computer or embodied in a carrier wave, said computer program comprising software for performing the method of claim 1.

7. ^{Fig 1} A computer program on a computer readable medium or embodied in a carrier wave for use in discovery of devices on a network, which network comprises a plurality of devices, at least some of which are ^{12, 13, 14} managed, at least one ¹⁵ unmanaged phone, and a telephone ²⁰ controller, said computer program comprising:

- 5 program step for establishing an address for the or each managed device;
 program step for establishing an address for the telephone controller;
 program step for establishing an address for the or each phone;
 program step for determining which of the remaining devices are phones by
 accessing the relevant information in the discovered telephone controller and
 10 establishing correspondence between the or each said phone and its address; and
 program step for using this information to provide a display of the topology
 of the network including the or each phone.

8. A program as claimed in claim 7 in which the telephone controller is accessed
 15 to obtain information stored in a memory of the telephone controller.

9. A program as claimed in claim 7 in which said addresses comprise the MAC
 address.

20 10. A program as claimed in claim 7 including the further program step of
 discovering and displaying the topology of an arrangement wherein a single port of a
 managed device is connected to an Ethernet phone and a further non-phone device.

25 11. A program as claimed in claim 7 including the further program step of
 converting information relating to the devices, the telephone controller and the
 telephones into a visual display on a visual display apparatus representing the physical
 relationship between the devices, the telephone controller and the phones.

30 12. ^{Fig 1} A computer program on a computer readable medium or embodied in a carrier
 wave for use in discovery of devices on a network, which network comprises a

plurality of devices, at least one of which is managed, at least one unmanaged phone, and a telephone controller, said computer program comprising:

Fig 5 a program step to discover the network, including the managed devices, the telephone controller and to establish the MAC addresses of unmanaged phones; 102

5 a program step to obtain information from the telephone controller containing an association of MAC address(es) to the or each phone; 102

a program step to find ports of devices with MAC address of phones; 103

a program step to determine, in respect of a port on which a MAC address of a phone is present, if there is only single MAC address; 104

10 if yes, a program step to display a phone icon and relevant details connected directly to the port; 105

if no, a program step to determine if there are two MAC addresses and if one is a phone; 106

15 if yes, a program step to provide a display of a device with the second MAC address connected to the network via an icon of the phone; 107

if no, a program step to display an unmanaged aggregator display cloud. 108

13. A computer program embodied in a carrier wave, said computer program comprising software for performing the method of claim 1.

20 14. A computer network comprising a plurality of devices, at least some of which are managed, at least one unmanaged phone and telephone controller, including means for establishing an address for the managed devices, the telephone controller and the or each said phone, means for establishing the type of each managed device in
25 the network, determining which of the remaining devices are phones by means for accessing the relevant information in the discovered telephone controller by establishing correspondence between the or each said phone and its address, and means for using this information to provide a display of the topology of the network
including the or each phone.

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15. A computer network as claimed in claim 14 in which the telephone controller is accessed to obtain information stored in a memory of the telephone controller.
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